

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-215707

(43)Date of publication of application : 08.09.1988

(51)Int.Cl.

C08F220/36
C03C 25/02
C08F 2/48
C08F 2/48
C08F220/58
C08F299/02
C08F299/02

(21)Application number : 62-048835

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(22)Date of filing : 05.03.1987

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(54) ULTRAVIOLET-CURING RESIN COMPOSITION

(57)Abstract:

PURPOSE: To provide the title composition having a low glass transition point and a low elastic modulus and excellent in adhesion to glass, low water absorption and resistance to moisture which is suitable as a primary covering material for an optical fiber and contains an acrylate compound comprising a specific urethane acrylate, and acryloylmorpholine.

CONSTITUTION: 100pts.wt. acrylate compound (I) comprising a urethane acrylate (A) having (meth)acryloyl groups on both ends, which is obtained by reacting the both ends of polytetramethylene glycol (a) having an MW of 1,500W10,000 with a linear aliphatic diisocyanate (b), and then reacting a compound (c) having a (meth) acryloyl group and an OH-group and/or a urethane acrylate (B) having (meth)acryloyl groups on the both ends, which is obtained by reacting the both ends of propylene oxide-tetrahydrofuran copolymer (d) having OH-groups on the both ends and an MW of 1,500W10,000 with component (b), and then reacting component (c), 5W40pts.wt. acryloylmorpholine of the formula and, if desired, 0.1W5pts.wt. silane coupling agent are blended.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]